

Appl. No. 10/663629
Reply to Office action of June 29, 2004

IN THE CLAIMS

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.
Claim 7 is canceled without prejudice or disclaimer.

Listing of Claims:

1. (Currently Amended) A ceramic layered product comprising:
a plurality of ceramic layers including a metallic element; and
a plurality of metal layers, each of which is arranged between the ceramic layers,
wherein the metal layers include at least one element selected from the group consisting
of Ni, Cu, Ag, and Pd in a total content of not less than 50 atm% as a main component, and at
least one element selected from the metallic elements of the ceramic layers in a content of not
less than 1 atm% and less than 50 atm% as an additive component, and
crystal grains of the metal layers form a columnar structure oriented in a thickness
direction.
2. (Original) The ceramic layered product according to claim 1, wherein each of the
metal layers includes Ni in a content of not less than 50 atm%.
3. (Original) The ceramic layered product according to claim 1, wherein the metallic
element included in the ceramic layers is Ba or Ti.
4. (Original) The ceramic layered product according to claim 1, wherein a content of
the additive component increases as it is closer to at least one surface of each of the metal layers.
5. (Original) The ceramic layered product according to claim 1, wherein a content of
the additive component increases as it is closer to both surfaces of each of the metal layers.
6. (Original) The ceramic layered product according to claim 1, wherein the metal
layers have a thickness of 0.1 μm to 2 μm .
7. (Cancelled)

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8. (Original) The ceramic layered product according to claim 1, wherein a grain size of the metal layers is not less than 0.1 μm .
9. (Original) The ceramic layered product according to claim 1, wherein a packing factor of the metal layers is not less than 70%.
10. (Original) The ceramic layered product according to claim 1, wherein the metal layers include acicular particles.
11. (Original) The ceramic layered product according to claim 10, wherein the acicular particles include a metal that forms a hexagonal lattice.
12. (Original) The ceramic layered product according to claim 10, wherein the acicular particles include Ti.
13. (Original) The ceramic layered product according to claim 10, wherein a length of the acicular particles is longer than a thickness of the metal layers.
14. (Original) The ceramic layered product according to claim 10, wherein a length of the acicular particles in a longitudinal direction is at least two times as long as a dimension in a direction perpendicular to the longitudinal direction.
15. (Original) The ceramic layered product according to claim 10, wherein the metal layers further include granular particles connected to the acicular particles.
16. (Currently Amended) A method for manufacturing a ceramic layered product comprising:
 - forming a metal layer by a solventless process; and
 - stacking a plurality of ceramic green sheets, each of which is provided with the metal layer,wherein the ceramic green sheets include a metallic element, and
the metal layer includes at least one element selected from the group consisting of Ni, Cu, Ag, and Pd in a total content of not less than 50 atm% as a main component, and at least one

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element selected from the metallic elements of the ceramic green sheets in a content of not less than 1 atm% and less than 50 atm% as an additive component, and

crystal grains of the metal layers form a columnar structure oriented in a thickness direction.

17. (Withdrawn) The method according to claim 16, further comprising:
transferring the metal layer formed on a supporting film onto a ceramic green sheet so that the ceramic green sheet is provided with the metal layer.
18. (Withdrawn) The method according to claim 16, wherein the solventless process is multisource evaporation, multisource sputtering, or alloy sputtering.
19. (Withdrawn) The method according to claim 18, wherein the metal layer is formed in an atmosphere containing oxygen.
20. (Withdrawn) The method according to claim 16, wherein the metal layer is formed so that a content of the additive component increases as it is closer to at least one surface of the metal layer.
21. (Withdrawn) The method according to claim 16, wherein the metal layer is formed so that a content of the additive component increases as it is closer to both surfaces of the metal layer.
22. (Withdrawn) The method according to claim 16, wherein a thin film formation source including the additive component and a thin film formation source including the main component are located respectively on an upstream side and a downstream side of a traveling supporting film, and
a metal layer including the additive component and the main component is formed on the supporting film by multisource evaporation or multisource sputtering.
23. (Withdrawn) The method according to claim 22, wherein a thin film formation source including the additive component further is located on a downstream side of the traveling supporting film from the thin film formation source including the main component.